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((((parallel instrument* source code)<in>metadata)) <and> (pyr >= 1985

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1 [KDB: a multi-threaded debugger for multi-threaded applications](#)

 Peter A. Buhr, Martin Karsten, Jun Shih

 January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**
Publisher: ACM Press

Full text available:  pdf(991.10 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Session 24: software tools: A portable debugger for parallel and distributed programs](#)

 Doreen Cheng, Robert Hood

 November 1994 **Proceedings of the 1994 ACM/IEEE conference on Supercomputing**
Publisher: ACM Press

Full text available:  pdf(996.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We describe the design and implementation of a portable debugger for parallel and distributed programs. The design incorporates a client-server model in order to isolate non-portable debugger code from the user interface. The precise definition of a protocol for client-server interaction facilitates a high degree of client portability. Replication of server components permits the implementation of a debugger for distributed computations. Portability across message passing implementations is achie ...

3 [The Mantis parallel debugger](#)

 Steven S. Lumetta, David E. Culler

 January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**
Publisher: ACM Press

Full text available:  pdf(2.19 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

4 Efficient debugging primitives for multiprocessors Z. Aral, I. Gerther, G. Schaffer April 1989 ACM SIGARCH Computer Architecture News , Proceedings of the third international conference on Architectural support for programming languages and operating systems ASPLOS-III, Volume 17 Issue 2**Publisher:** ACM PressFull text available:  pdf(792.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Existing kernel-level debugging primitives are inappropriate for instrumenting complex sequential or parallel programs. These functions incur a heavy overhead in their use of system calls and process switches. Context switches are used to alternately invoke the debugger and the target programs. System calls are used to communicate data between the target and debugger. None of this is necessary in shared-memory multiprocessors. Multiple processors concurrently run both the debugge ...

5 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

 November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Publisher:** IBM PressFull text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

6 Graphical animation of parallel Fortran programs Sue Utter-Honig, Cherri M. Pancake August 1991 Proceedings of the 1991 ACM/IEEE conference on Supercomputing**Publisher:** ACM PressFull text available:  pdf(1.35 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**7 Summary of the sigmetrics symposium on parallel and distributed processing** Jeffrey K. Hillingsworth, Barton P. Miller March 1999 ACM SIGMETRICS Performance Evaluation Review, Volume 26 Issue 4**Publisher:** ACM PressFull text available:  pdf(1.17 MB) Additional Information: [full citation](#), [index terms](#)**8 Experiences with building distributed debuggers**

Michael S. Meier, Kevan L. Miller, Donald P. Pazel, Josyula R. Rao, James R. Russell

◆ January 1996 Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**Publisher:** ACM PressFull text available:  [pdf\(1.34 MB\)](#)Additional Information: [full citation](#), [references](#), [index terms](#)**9 Process migration****◆ September 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 3****Publisher:** ACM PressFull text available:  [pdf\(1.24 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

10 Engineering VAX Ada for a multi-language programming environment**Charles Z Mitchell****◆ January 1987 ACM SIGPLAN Notices , Proceedings of the second ACM SIGSOFT/SIGPLAN software engineering symposium on Practical software development environments SDE 2, Volume 22 Issue 1****Publisher:** ACM PressFull text available:  [pdf\(1.20 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

DIGITAL's VAX™ Adar is a validated, production-quality implementation of the full Ada language that is well-integrated into the VMS™ operating system environment on VAX systems. The programming support environment consists of an Ada compiler, an Ada program library manager, and a multi-language programming environment including a variety of tools which all work together. The Ada compiler has many features wh ...

11 Summary of ACM/ONR workshop on parallel and distributed debugging**◆ October 1993 ACM SIGOPS Operating Systems Review, Volume 27 Issue 4****Publisher:** ACM PressFull text available:  [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [index terms](#)**12 Debugging standard ML without reverse engineering****◆ Andrew P. Tolmach, Andrew W. Appel****◆ May 1990 Proceedings of the 1990 ACM conference on LISP and functional programming****Publisher:** ACM Press

Full text available:  pdf(1.29 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We have built a novel and efficient replay debugger for our Standard ML compiler. Debugging facilities are provided by instrumenting the user's source code; this approach, made feasible by ML's safety property, is machine-independent and back-end independent. Replay is practical because ML is normally used functionally, and our compiler uses continuation-passing style; thus most of the program's state can be checkpointed quickly and compactly using call-with-current-continuation. Together, ...

13 [Debugging concurrent programs](#)

 Charles E. McDowell, David P. Helmbold
December 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.86 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The main problems associated with debugging concurrent programs are increased complexity, the "probe effect," nonrepeatability, and the lack of a synchronized global clock. The probe effect refers to the fact that any attempt to observe the behavior of a distributed system may change the behavior of that system. For some parallel programs, different executions with the same data will result in different results even without any attempt to observe the behavior. Even when the behavior can be ...

14 [Program development for a systolic array](#)

 Bernd Bruegge
January 1988 **ACM SIGPLAN Notices , Proceedings of the ACM/SIGPLAN conference on Parallel programming: experience with applications, languages and systems PPEALS '88**, Volume 23 Issue 9

Publisher: ACM Press

Full text available:  pdf(1.27 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The primary objective of the Warp programming environment (WPE) is to simplify the use of Warp, a high-performance programmable linear systolic array connected to a general-purpose workstation host. WPE permits the development of distributed applications that access Warp either locally from the host or remotely from a large number of workstations connected to a local area network. Its audience includes the user who calls routines from a library, the programmer who develops new algorithms fo ...

15 [Event and state-based debugging in TAU: a prototype](#)

 Sameer Shende, Janice Cuny, Lars Hansen, Joydip Kundu, Stephen McLaughry, Odile Wolf
January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

Publisher: ACM Press

Full text available:  pdf(1.49 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

16 [HDB-a high level debugging](#)

D. Y. Cheng

August 1989 **Proceedings of the 1989 ACM/IEEE conference on Supercomputing**

 **Publisher:** ACM Press

Full text available:  pdf(835.50) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#) (KB)

This paper presents a new high level debugging tool, HDB, for debugging large scientific programs running on a moderate number of processors. The unique feature of HDB is that checksums are used to compress arrays and groups of variables without losing meaningful information for debugging. Using checksums makes it possible to use invariance assertions to detect misbehavior of a program at a place near the source of the error. Tracing the checksums allows th ...

17 [Fast breakpoints: design and implementation](#)

 Peter B. Kessler

 June 1990 ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1990 conference on Programming language design and implementation PLDI '90, Volume 25 Issue 6

Publisher: ACM Press

Full text available:  pdf(855.02) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#) (KB)

We have designed and implemented a fast breakpoint facility. Breakpoints are usually thought of as a feature of an interactive debugger, in which case the breakpoints need not be particularly fast. In our environment breakpoints are often used for non-interactive information gathering; for example, procedure call count and statement execution count profiling [Swinehart, et al.]. When used non-interactively, breakpoints should be as fast as possible, so as to perturb the execution of the pro ...

18 [Automatic detection of nondeterminacy in parallel programs](#)

 Perry A. Emrath, David A. Padua

 November 1988 ACM SIGPLAN Notices , Proceedings of the 1988 ACM SIGPLAN and SIGOPS workshop on Parallel and distributed debugging PADD '88, Volume 24 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.02) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#) (MB)

19 [Summary of ACM/ONR workshop on parallel and distributed debugging](#)

 January 1992 ACM SIGOPS Operating Systems Review, Volume 26 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.31) Additional Information: [full citation](#), [citations](#), [index terms](#) (MB)

20 [Trace-driven memory simulation: a survey](#)

 Richard A. Uhlig, Trevor N. Mudge

 June 1997 ACM Computing Surveys (CSUR), Volume 29 Issue 2

Publisher: ACM Press

Full text available:  pdf(636.11) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#) (KB)

As the gap between processor and memory speeds continues to widen, methods for evaluating memory system designs before they are implemented in hardware are becoming increasingly important. One such method, trace-driven memory simulation, has been the subject of intense interest among researchers and has, as a result, enjoyed rapid development and substantial improvements during the past decade. This article surveys and analyzes these developments by establishing criteria for evaluating trac ...

Keywords: TLBs, caches, memory management, memory simulation, trace-driven simulation

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[PS] A Graphical Development and Debugging Environment for Parallel Programs

P Kacsuk, JC Cunha, G Dozsa, J Lourenco, T Fadgyas ... - **Parallel Computing**, 1997 - www-asc.di.fct.unl.pt

... Makefile **Code C Source** file ... Besides formal methods to assure the quality of **parallel** programs, systematic ... system (eg all the client tools know that **breakpoint** ...

Cited by 46 - View as HTML - Web Search - lpd.sztaki.hu - portal.acm.org - all 6 versions »

An Integrated Approach to Parallel Program Debugging and Performance Analysis of Large-Scal ...

RJ Fowler, TJ LeBlanc, JM Mellor-Crummey - Workshop on **Parallel** and Distributed Debugging, 1988 - portal.acm.org

... in a very pow- erful base for **parallel** program analysis ... used to replay an execu-
tion; the **source code** is used ... a program replay tool to set a **breakpoint** at that ...

Cited by 29 - Web Search - portal.acm.org

[PS] Paralex: an environment for parallel programming in distributed systems

O Babaoglu, L Alvisi, A Amoroso, R Davoli, LA ... - ICS, 1992 - funet.fi

... would result in communication costs osetting all benets derived from **parallel** computation ... editor invoked on the le \quick.c" containing the **source code** for the ...

Cited by 49 - View as HTML - Web Search - funet.fi - portal.acm.org - all 4 versions » - Library Search

[PS] Interactive debugging and performance analysis of massively parallel applications

R Wismueller, M Oberhuber, J Krammer, O Hansen - **Parallel Computing**, 1996 - wwwbode.informatik.tu-muenchen.de

... So for data **parallel** programs a single window can ... and additional descriptions inserted into the **source code** (see Fig ... line, a variable name or a **breakpoint** marker ...

Cited by 26 - View as HTML - Web Search - wwwbode.in.tum.de - wwwbode.cs.tum.edu - portal.acm.org - all 9 versions »

Breakpoints and breakpoint detection in source-level emulation

GH Koch, W Rosenstiel, U Kebschull - ACM Transactions on Design Automation of Electronic Systems, 1998 - portal.acm.org

... the while-condition and the if-condition of the VHDL **source** are evaluated in **parallel**. ...

Breakpoints and Breakpoint Detection in Source-Level Emulation ...

Cited by 9 - Web Search - ieeexplore.ieee.org - fzi.de - sigda.org - all 8 versions »

A visualization-based environment for top-down debugging of parallel programs

JL Sharnowski, BHC Cheng - IPPS, 1995 - doi.ieeecs.org

... name IS selected from the **source code** listing, then ... Proceedings of the 9th International **Parallel** Processing Symposium ... a space-time diagram t **breakpoint** state ...

Cited by 6 - Web Search - doi.ieeecomputersociety.org - ieeexplore.ieee.org - portal.acm.org - all 5 versions »

[PS] Mantis parallel debugger

SS Lumetta, DE Culler - ... '96: SIGMETRICS Symposium on **Parallel** and Distributed Tools, 1996 -

crhc.uiuc.edu

... In the absence of **source** information, Mantis can disassemble the ... We next examine a handful of **parallel** debuggers ... The user has just set a **breakpoint** at line 99 ...

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An API for Runtime Code Patching

B Buck, JK Hollingsworth - Sage, 2000 - [ingentaconnect.com](#)

... module refers to a single **source** file in ... of critical path analysis for **parallel** programs running ... Table 1 Conditional **Breakpoint** Performance Breakpoints Dyninst ...

Cited by 145 - [Web Search](#) - [prism.uvsq.fr](#) - [dyninst.org](#) - [le-hacker.org](#) - [all 11 versions »](#)

[PS] Language-based Parallel Program Interaction: the Breezy Approach

D Brown, A Malony, B Mohr - Proceedings of the International Conference on High ... , 1995 - [cs.uoregon.edu](#)

... as current **breakpoint** location in **source code** and the ... as type descriptions of the **parallel** data structures ... that can be called, the **Breakpoint Executive** module ...

Cited by 7 - [View as HTML](#) - [Web Search](#) - [cs.uoregon.edu](#)

A Visual Approach for Developing, Understanding and Analyzing Parallel Programs

G Wirtz - VL, 1993 - [ieeexplore.ieee.org](#)

... prior to the generation of compilable and executable **source-code**. ... expected and real behaviour of a **parallel** program ... the mode to stepping at a **breakpoint** is a ...

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breakpoint parallel source code + determining [1985] - [2000] Search Advanced Search

Scholar Results 1 - 10 of about 184 for breakpoint parallel source code + determining whether sour...

[PS] The ParaScope parallel programming environment

KD Cooper, MW Hall, RT Hood, K Kennedy, KS ... - Proceedings of the IEEE, 1993 - cs.utexas.edu
... Thus, the **code** and some of the annotations are a ... we plan to build a prototype
source-to-source parallelizer for ... provide an initial **parallel** program [16, 17, 18 ...
Cited by 61 - View as HTML - Web Search - cs.utexas.edu - ieeexplore.ieee.org - csa.com

Evicted variables and the interaction of global register allocation and symbolic debugging

AR Adl-Tabatabai, T Gross - POPL, 1993 - portal.acm.org

... Office, under the title "Research on **Parallel** Computing: ARPA ... uses them to detect
whether a breakpoint lies within ... r has been assigned to **source** variables x ...

Cited by 19 - Web Search - portal.acm.org - Library Search

Debugging of behavioral VHDL specifications by source level emulation

G Koch, U Kebschull, W Rosenstiel - The 1995 European Design Automation Conference with EURO-DAC, 1995 - ieeexplore.ieee.org

... of SLE When we speak of **source** level debugging ... by the HLS are exchanged with **parallel**
loadable shift ... output of this gate indicates that a **breakpoint** is reached ...

Cited by 11 - Web Search - sigda.org - acm.org - fzi.de - all 8 versions »

FULLDOC: A Full Reporting Debugger for Optimized Code

C Jaramillo, R Gupta, ML Soffa - SAS, 2000 - springerlink.com

... variables that a user expects to see at a **breakpoint** in the **source code**, even though ...
to obtain part of the execution path of the optimized **code**, which is ...

Cited by 9 - Web Search - cs.pitt.edu - cs.arizona.edu - portal.acm.org - all 5 versions »

A Debugging and Testing Tool for Supporting Software Evolution

D Abramson, R Sosic - Automated Software Engineering, 1996 - springerlink.com

... this file is used as the **source** of variable ... allow for interprocessor communication
in a **parallel** form of ... Assertions make use of the **breakpoint** capability which ...

Cited by 15 - Web Search - ingentaconnect.com - csse.monash.edu.au

Comparison Checking: An Approach to Avoid Debugging of Optimized Code

C Jaramillo, R Gupta, ML Soffa - ESEC / SIGSOFT FSE, 1999 - springerlink.com

... 8. When the unoptimized program execution reaches the **breakpoint**, the user ... when
optimizations are applied at the **source**, intermediate, or target **code** level. ...

Cited by 12 - Web Search - cs.pitt.edu - www-users.cs.umn.edu - cs.arizona.edu - all 8 versions »

System Validation by Source Level Emulation of Behavioral VHDL Specifications

G Koch, U Kebschull, W Rosenstiel - Rapid System Prototyping, 1995. Proceedings., Sixth IEEE ... , 1995 - ieeexplore.ieee.org

... of SLE When we speak of **source** level debugging ... by the HLS are exchanged with **parallel**
loadable shift ... output of this gate indicates that a **breakpoint** is reached ...

Web Search - fzi.de - ieeexplore.ieee.org

The p2d2 Project: Building a Portable Distributed Debugger

R Hood, I MRJ, NA Simulation - Proc. of SPDT, 1996 - portal.acm.org

... and built p2d2, a portable **parallel/distributed debugger**. ... as trap instructions used in **breakpoint** implementation, q ... for this approach: gdb's **source** is freely ...

Cited by 57 - Web Search - nas.nasa.gov - nas.nasa.gov - science.nas.nasa.gov - all 5 versions »

[PS] Debugging Optimized Code via Tailoring

L Pollock, M Bivens, M Soffa - Proceedings of the 1994 International Symposium on Software ..., 1994 - cis.udel.edu

... the standard debugging commands such as **breakpoint** inser ... Zellweger [24], is a **source** level debugger that ... and reporting procedure traceback on **code** that includes ...

Cited by 2 - View as HTML - Web Search - cis.udel.edu - udel.edu - portal.acm.org - all 5 versions »

Detection and Recovery of Endangered Variables Caused by Instruction Scheduling

AR Adl-Tabatabai, T Gross - PLDI, 1993 - portal.acm.org

... under the title "Research on **Parallel Computing**," ARPA ... variables at breakpoints in the **code** of Figure 1 ... to the corre- sponding **source breakpoint**, then V is ...

Cited by 23 - Web Search - cs.berkeley.edu - portal.acm.org

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insert breakpoint into source code + parallel

1985

- 2000

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ScScholar Results 1 - 10 of about 198 for **insert breakpoint into source code + parallel**. (0.07 seconds)**[PS] Detours: Binary interception of Win32 functions**

G Hunt, D Brubacher - Proceedings of the 3rd USENIX Windows NT Symposium, 1999 - usenix.org
 ... branch or jump is inserted **into** the desired ... Detailed binary rewriters can **insert**
 instrumentation around any ... smaller than the penalty for **breakpoint** trapping. ...
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 research.microsoft.com - all 9 versions »

An API for Runtime Code Patching

B Buck, JK Hollingsworth - Sage, 2000 - ingentaconnect.com
 ... a module refers to a single **source** file in ... The **code** to generate and **insert** this snippet
 is shown in ... It compiles the condition for the **breakpoint** **into** a Dyninst ...
 Cited by 145 - Web Search - prism.uvsq.fr - dyninst.org - le-hacker.org - all 11 versions »

[PS] Paralex: an environment for parallel programming in distributed systems

O Babaoglu, L Alvisi, A Amoroso, R Davoli, LA ... - ICS, 1992 - funet.fi
 ... It divides the input vector **into** four segments that ... costs offsetting all benefits derived
 from **parallel** computation ... le \quick.c" containing the **source code** for the ...
 Cited by 49 - View as HTML - Web Search - funet.fi - portal.acm.org - all 4 versions » - Library Search

A visualization-based environment for top-down debugging of parallel programs

JL Sharnowski, BHC Cheng - IPPS, 1995 - doi.ieeecs.org
 ... point, the programmer may select, the **Insert** button. ... option is provided for eliminating
 an inserted **breakpoint**. ... gram states may be categorized **into** four types. ...
 Cited by 6 - Web Search - doi.ieeecomputersociety.org - ieeexplore.ieee.org - portal.acm.org - all 5
 versions »

[PS] Bisection Debugging

T Gross, P Checksum - AADEBUG, 1997 - ida.liu.se
 ... debugging requires the ability to **insert** arbitrary breakpoints ... snapshot of the program
 state each each **breakpoint**. ... values to variables introduced newly **into** P ...
 Cited by 3 - View as HTML - Web Search - ep.liu.se - ida.liu.se

VASE: the visualization and application steering environment

D Jablonowski, JD Brunner, B Bliss, RB Haber - SC, 1993 - ieeexplore.ieee.org
 ... Output statements are inserted **into** the application **source code**, and during execution
 the program writes programmer-selected data **into** output files. ...
 Cited by 69 - Web Search - ieeexplore.ieee.org

The p2d2 Project: Building a Portable Distributed Debugger

R Hood, I MRJ, NA Simulation - Proc. of SPDT, 1996 - portal.acm.org
 ... such as trap instructions used in **breakpoint** implementation, q ... reasons for this approach:
 gdb's **source** is freely ... on a debugger server object **into** gdb commands ...
 Cited by 57 - Web Search - nas.nasa.gov - nas.nasa.gov - science.nas.nasa.gov - all 5 versions »

The "Annai" environment for portable distributed parallel programming

C Clemenccon, A Endo, J Fritscher, A Mueller, R ... - HICSS (2), 1995 - ieeexplore.ieee.org

... PMA and PDT to show features or **source** regions of ... in- spectors and executors for critical **code** sections ... We integrated this mechanism into an HPF compiler built ...

Cited by 8 - Web Search - ieeexplore.ieee.org - portal.acm.org - portal.acm.org

Debugging multithreaded programs with MPD

MK Ponamgi, W Hseush, GE Kaiser - IEEE Software, 1991 - ieeexplore.ieee.org

... event is defined by a **breakpoint** inserted into the program ... 0x1 23:fik Dpmo.c, line37 **Breakpoint** 11 OAS6 ... tored, MPD logs which line in the **source code** sent the ...

Cited by 11 - Web Search - doi.ieeecomputersociety.org - psl.cs.columbia.edu - portal.acm.org - all 14 versions»

Object view: a software design architecture for **breakpoint**-based program visualization

CD Hundhausen, AD Malony - 1993 - moab.eecs.wsu.edu

... 8 Insert Figure 2 here ... of lines, while go tells the program to execute to the next **breakpoint**. ... Requirement 3: Minimal intrusions into the original **source code**. ...

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L1	221	717/129.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 13:00
L2	14	717/129.ccls. and multithread\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 13:00
L3	23	717/129.ccls. and (multithread\$3 or "multi-threaded")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 10:42
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L6	5	717/129.ccls. and (multithread\$3 or "multi-threaded") and (breakpoint or "break point" or instrument\$5) and insert\$3 near3 (breakpoint or "break point") and (determin\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 11:51
L7	4	("6681384" "6378125").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 11:03
L8	1	717/129.ccls. and (multithread\$3 or "multi-threaded") and (breakpoint or "break point" or instrument\$5) near3 "source code"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 11:52
L9	321	717/130.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 13:00

L10	19	717/130.ccls. and multithread\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 13:10
L11	2	"6668317".pn	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 13:00
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L13	1	717/130.ccls. and multithread\$3 and "source code" and (breakpoint\$3 or (break adj point\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/12/01 13:11